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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

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|-------|---|----|---|------------------------|----------------------|
| Sheet | 1 | of | 1 | Attorney Docket Number | 8840/96472 (P0737US) |
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Complete if Known

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| Application Number | 110156751A |
| Filing Date | February 7, 2006 |
| First Named Inventor | Kiyoshi NISHIYAMA |
| Group Art Unit | |
| Primary Examiner Name | |
| Confirmation No. | |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number Number - Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | 1 | 5,394,322 | 02-28-1995 | Hansen | |
| | 2 | 5,987,444 | 11-16-1999 | Lo | |
| | 3 | 5,995,620 | 11-30-1999 | Wigren | |
| | 4 | 6,711,598 | 03-23-2004 | Paré, Jr. | |
| | 5 | 6,801,881 | 10-05-2004 | Shah | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|--------------------|-----------------------|--|--------------------------------|--|---|----------------|
| | 6 | Japanese Patent Publication Application No. JP 2002-135171 | 05-10-2002 | Japan Science & Technology | | ✓ |
| | 7 | Japanese Patent Publication Application No. JP 07-185625 | 07-25-1995 | Nippon Steel Corp. | | ✓ |
| | 8 | Japanese Patent Publication Application No. JP 61-200713 | 09-05-1986 | OKI Electric Ind Co Ltd. | | ✓ |
| | 9 | Japanese Patent Publication Application No. JP 07-110693 | 04-25-1995 | Sharp Corp. | | ✓ |

OTHER ART - NON PATENT LITERATURE DOCUMENTS

| | | | |
|--------------------|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ⁶ |
| | 10 | Publication: "Robust Estimation of a Single Complex Sinusoid In White Noise - H_∞ Filtering Approach", by Kiyoshi Nishiyama, IEEE Transaction on Single Processing, Vol. 47, No. 10, October 1999. | ✓ |
| | 11 | Publication: " H_∞ -Learning of Layered Neural Networks", by Nishiyama et al., IEEE Transactions on Neural Networks, Vol. 12, No. 6, November 2001. | ✓ |
| | 12 | Publication: "Adaptive Filter Theory, Third Edition" by Simon Haykin, Kalman Filters, Chap. 7, page 320-321, Prentice Hall Information and Sciences Series. | ✓ |
| | 13 | Publication: "Indefinite-Quadratic Estimation and Control, A Unified Approach to H^2 and H^∞ Theories", by Hassibi et al., Studies in Applied and Numerical Mathematics, Chapter 1, pages 4-21. | |
| | 14 | Publication: "A State-Space Approach To Adaptive RLS Filtering" by Ali H. Sayed and Thomas Kailath, published by IEEE Signal Processing Magazine, July 1994, pages 18-60. | |
| | 15 | Publication: "A Fast Filter And Its Tracking Performance For Time-Varying System Identification" by Kiyoshi NISHIYAMA of Dep. of Comp & Info. Science, Faculty of Engineering, Iwate University, Japan, published by Proceeding of 15 th Digital Signal Processing Symposium, pages 191-196, Iwate, Japan. | |

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|--------------------|---------------|-----------------|------------|
| Examiner Signature | /Saif Alhija/ | Date Considered | 05/24/2008 |
|--------------------|---------------|-----------------|------------|

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 1

Complete if Known**107567514**

| | |
|-----------------------|-------------------|
| Application Number | 107567514 |
| Filing Date | February 7, 2006 |
| First Named Inventor | Kiyoshi NISHIYAMA |
| Group Art Unit | 1A200 |
| Primary Examiner Name | REED, R. T. |
| Confirmation No. | |

1A200 Rec'd OCT/07 FEB 2006

Attorney Docket Number 8840/96472 (P0737US)

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|----|--|--|
| 16 | Publication: "Digital Signal Processing Handbook", 1993, pages 419-423 and 177-190. | |
| 17 | PCT International Search Report mailed November 22, 2004, PCT/ISA/210,220, 237 for International PCT Patent Application No. PCT/JP2004/011568 filed August 05, 2004, International Publication No. WO 2005/015737 A1 published February 17, 2005. | |
| 18 | PCT International Preliminary Examination Report of June 9, 2005, PCT/IPEA 401, 408, 409, 416 for International PCT Patent Application No. PCT/JP2004/011568 filed August 05, 2004, International Publication No. WO 2005/015737 A1 published February 17, 2005. | |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.A./

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|--------------------|---------------|-----------------|------------|
| Examiner Signature | /Saif Alhija/ | Date Considered | 05/22/2008 |
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